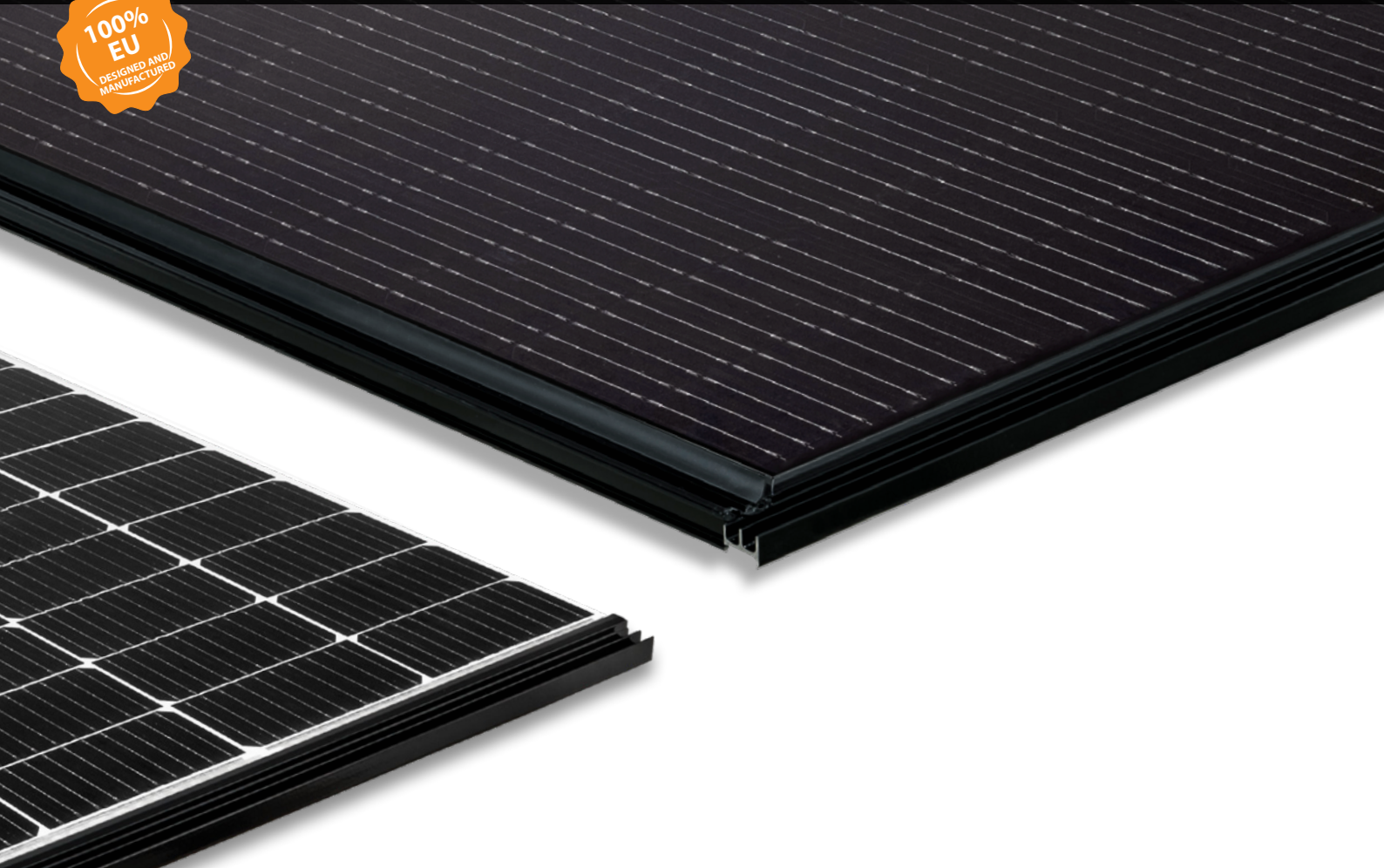


PREMIUM

# BISOL BIPV

Monocrystalline Roof Integrated PV Modules / BSO 400-420 Wp



Designed and  
manufactured in EU



Replaces  
conventional roof tiles



PID free



Limited shading



Module presorting  
for higher profitability



Supremely low degradation



Module efficiency  
up to 21.5 %

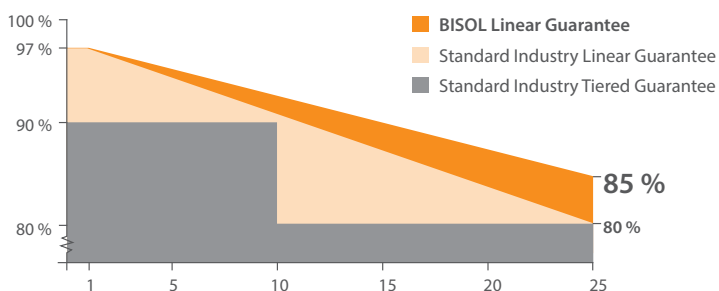


Up to 13 % higher  
real-life performance



Excellent low light  
performance

## Guarantees:



Linear Guarantee  
85 % power output  
in 25<sup>th</sup> year

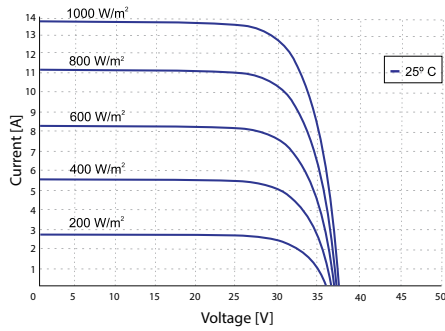


Product Guarantee  
Standard: 15 years  
Extra: 20 years

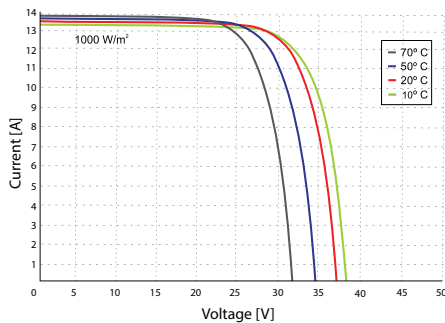
## In compliance with:



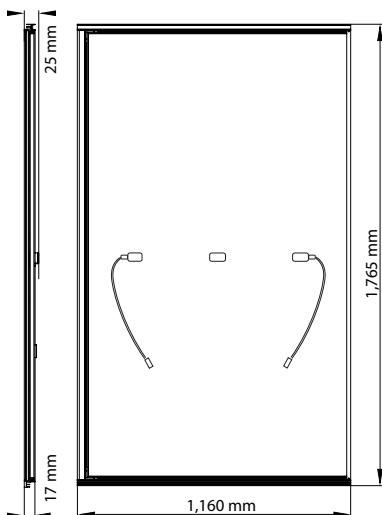
### I-V Curve at Various Irradiation Levels



### I-V Curve at Various Cell Temperatures



### Dimensions



### Electrical Specifications @ STC (AM 1.5, 1,000 W/m², 25 °C):

Module Type	BSO	400	410	420
Nominal Power	$P_{MPP}$ [W]	400	410	420
Short Circuit Current	$I_{SC}$ [A]	13.0	13.3	13.7
Open Circuit Voltage	$V_{OC}$ [V]	39.5	39.6	39.7
MPP Current	$I_{MPP}$ [A]	12.3	12.5	12.8
MPP Voltage	$V_{MPP}$ [V]	32.6	32.8	32.9
Module Efficiency	$\eta_M$ [%]	20.5	21.0	21.5
Power Output Tolerance		0/+5 W		
Maximum System Voltage		1,500 V		
Maximum Reverse Current		25 A		
Protection Class		Class II		

Additional power classes available upon request. | Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. | Tolerances for  $V_{OC}$  and  $I_{SC}$  and other electrical parameters are  $\pm 3$  %.

### Electrical Specifications @ NOCT (800 W/m², 43 °C, AM 1.5, Wind 1 m/s):

Module Type	BSO	400	410	420
Nominal Power	$P_{MPP}$ [W]	303	310	318
Short Circuit Current	$I_{SC}$ [A]	10.49	10.74	11.06
Open Circuit Voltage	$V_{OC}$ [V]	37.7	37.7	37.8
MPP Current	$I_{MPP}$ [A]	9.93	10.09	10.33
MPP Voltage	$V_{MPP}$ [V]	30.6	30.8	30.8

### Thermal Specifications:

Current Temperature Coefficient	$\alpha$	+ 0.05 %/°C
Voltage Temperature Coefficient	$\beta$	- 0.26 %/°C
Power Temperature Coefficient	$\gamma$	- 0.34 %/°C
NOCT		43 $\pm$ 2 °C
Temperature Range		- 40 °C to + 85 °C

### Mechanical Specifications:

Length x Width x Thickness	1,765 x 1,160 x 25 mm
Weight	22.5 kg
Solar Cells	108 Half-Cut mono PERC c-Si / 182 mm x 91 mm
Junction Box / Connectors / IP	3 bypass diodes / MC4 compatible / IP 68
Cable Length	Default: 1,200 mm
Frame	Solrif® / thickness: 17 mm
Glass	3.2 mm AR coating tempered glass / high-transparency / low-iron content
Impact Resistance	Hailstone / $\Phi$ 25 mm / 83 km/h (51 mph)

Tolerances of values are  $\pm 5$  %. Unspecified product properties remain under full discretion of BISOL Production.

### Packaging Information:

Modules per Pallet	Packaging Dimension: Length/Width/Height	Stackable	Packaging Weight	Tot. Nr. of Pallets/Load
24	191 x 120 x 136 cm	2 pallets	580 kg	28

Additional terms & conditions apply. Please see *Standard Limited Guarantee* and *General Sales Terms & Conditions*.

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